Model year	Average fuel econ- omy stand- ard (miles per gallon)
1998	12.1

(14) Qvale Automotive Group Srl.

Model year	Average fuel econ- omy stand- ard (miles per gallon)
2000	22.0 22.0

(15) Spyker Automobielen B.V.

AVERAGE FUEL ECONOMY STANDARD

Model year	Miles per gallon
2006	18.9 18.9

[43 FR 28204, June 29, 1978]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting §531.5 see the List of CFR Sections Affected which appears in the Finding Aids section of the printed volume and on GPO Access.

§ 531.6 Measurement and calculation procedures.

(a) The average fuel economy of all passenger automobiles that are manufactured by a manufacturer in a model year shall be determined in accordance

with procedures established by the Administrator of the Environmental Protection Agency under section 502(a)(1) of the Act and set forth in 40 CFR part 600.

(b) A manufacturer that is eligible to elect a model year in which to include value added in Mexico as domestic value, under subparagraphs (B)(i) and (B)(iii) of 49 U.S.C. 32904(b)(3), shall notify the Administrators of the Environmental Protection Agency and the National Highway Traffic Safety Administration of its election not later than 60 days before it begins production of automobiles for the model year. If an eligible manufacturer does not elect a model year before January 1, 2004, any value added in Mexico will be considered domestic value for automobiles manufactured in the next model year beginning after January 1, 2004, and in subsequent model years.

[42 FR 33552, June 30, 1977, as amended at 64 FR 27203, May 19, 1999]

APPENDIX A TO PART 531—EXAMPLE OF CALCULATING COMPLIANCE UNDER §531.5(C)

Assume a hypothetical manufacturer (Manufacturer X) produces a fleet of domestic passenger automobiles in MY 2012 as follows:

APPENDIX A, TABLE 1

	Model ty	/pe		Actual measured fuel					
Group	Carline name	Basic engine (L)	Transmission class	Description	economy (mpg)	Volume			
1	PC A FWD	1.8	A5	2-door sedan	34.0	1,500			
2	PC A FWD	1.8	M6	2-door sedan	34.6	2,000			
3	PC A FWD	2.5	A6	4-door wagon	33.8	2,000			
4	PC A AWD	1.8	A6	4-door wagon	34.4	1,000			
5	PC A AWD	2.5	M6	2-door hatchback	32.9	3,000			
6	PC B RWD	2.5	A6	4-door wagon	32.2	8,000			
7	PC B RWD	2.5	A7	4-door sedan	33.1	2,000			
8	PC C AWD	3.2	A7	4-door sedan	30.6	5,000			
9	PC C FWD	3.2	M6	2-door coupe	28.5	3,000			
Total									

NOTE TO APPENDIX A, TABLE 1. Manufacturer X's required corporate average fuel economy level standard under \$531.5(c) would first be calculated by determining the fuel economy targets applicable to each unique model type and footprint combination for model type groups 1-9 as illustrated in Appendix A, Table 2:

APPENDIX A, TABLE 2

Manufacturer X calculates a fuel economy target standard for each unique model type and footprint combination.

Pt. 531, App. A

Fuel	target standard (mpg)	35.01	35.14	35.14	35.08	35.95	35.81	30.19	30.33	29.99	29.52	29.76	
	Volume	006	900	2,000	2,000	1,000	3,000	4,000	4,000	2,000	5,000	3,000	27,500
	Footprint (ft²)	42.4	42.2	42.2	42.3	42.5	41.2	51.0	50.7	51.4	52.4	51.9	
Track	F&R average (inches)	61.2	6.09	6.09	6.09	61.2	59.5	67.2	8.99	67.8	67.8	67.2	
loodM	base (inches)	8.66	8.66	8.66	100.0	100.0	9.66	109.2	109.2	109.2	111.3	111.3	
	Base tire size	205/75R14	215/70R15	215/70R15	215/70R15	235/60R15	225/65R16	235/65R16	265/55R18	235/65R17	265/55R18	225/65R16	
Description		2-door sedan			•			4-door wagon			4-door sedan		
	Trans- mission class	A5	A5	M6	A6	A6	M6	A6	A6	A7	A7	W6	
	Basic engine (L)	1.8	1.8	1.8	2.5	1.8	2.5	2.5	2.5	2.5	3.2	3.2	
Model type	Carline name	PC A FWD	PC A FWD	PC A FWD	PC A FWD	PC A AWD	PC A AWD	PC B RWD	PC B RWD	PC B RWD	PC C AWD	PC C FWD	
	Group	1a	1b	2	3	4	5	6a	q9	7	8	6	Total

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NOTE TO APPENDIX A, TABLE 2. With the appropriate fuel economy targets determined for each unique model type and footprint combination, Manufacturer X's required fuel

economy target standard would be calculated as illustrated in Appendix A, Figure 1.

Appendix A, Figure 1

Calculation of Manufacturer X's target fuel economy standard

(Manufacturer's Domestic Passenger Automobile Production for Applicable Model Year)

/ ((Group 1a Volume / Group 1a Target) + ((Group 1b Volume / Group 1b Target) + \dots +

(Group 9 Volume / Group 9 Target)) =

27500 / (900/35.01 + 600/35.14 + 2000/35.14 + 2000/35.08 + 1000/34.95 + 3000/35.81 + 2000/35.08 + 2000/35.01 + 2000/35.0

4000/30.19 + 4000/30.33 + 2000/29.99 + 5000/25.52 + 3000/29.76) = 31.6

Manufacturer's Domestic Passenger Automobile Production for Applicable Model Year

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	Groupla	Group1b	Group2	Group3	Group7	Group8	Group9	
	Volume	Volume	Volume	Volume	Volume	Volume	Volume	
	Groupla	Group1b	Group2	Group3	Group7	Group8	Group9	
	Target	Target	Target	Target	Target	Target	Target	

27,500

900	600	2000	2000	1000	3000	4000	4000	2000	5000	3000
35.27	35.40	$\frac{1}{35.40}$	$\frac{1}{35.35}$	$\frac{1}{35.21}$	36.12	30.40	30.55	30.18	29.71	29.93

Fleet's target fuel economy standard = 31.6 mpg

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Appendix A, Figure 2

Calculation of Manufacturer X's actual fuel economy value.

(Manufacturer's Domestic Passenger Automobile Production for Applicable Model Year)

/ ((Group 1 Volume / Group 1 Fuel Economy) + ((Group 2 Volume / Group 2 Fuel

Economy) + ... + (Group 9 Volume / Group 9 Fuel Economy)) =

27500 / (1500/34.0 + 2000/34.6 + 2000/33.8 + 1000/34.4 + 3000/32.9 + 8000/32.2 + 2000/34.0 + 2000/34

2000/33.1 + 5000/30.6 + 3000/28.5) = 32.0

Manufacturer's Domestic Passenger Automobile Production for Applicable Model Year

Group1	Group2	Group3	Group4	Group5	Group6	Group7	Group8	Group9
Volume								
Group1	Group2	Group3	Group4	Group5	Group6	Group7	Group8	Group9
FuelEcon								

27,500									
1500	2000	2000	1000	3000	8000	2000	5000	3000	
34.0	34.6	33.8	34.4	32.9	32.2	33.1	30.6	28.5	

Fleet's actual fuel economy = 32.0 mpg

NOTE TO APPENDIX A, FIGURE 2. Since the actual average fuel economy of Manufacturer X's fleet is 32.0 mpg, as compared to its required fuel economy level of 31.8 mpg, Manufacturer X complied with the CAFE standard for MY 2012 as set forth in §531.5(c).

 $[75~{\rm FR}~25719,~{\rm May}~7,~2010]$

PART 533—LIGHT TRUCK FUEL ECONOMY STANDARDS

Sec.

533.1 Scope.

533.2 Purpose.

533.3 Applicability.

533.4 Definitions.

533.5 Requirements.

533.6 Measurement and calculation procedures.

APPENDIX A TO PART 533—EXAMPLE OF CAL-CULATING COMPLIANCE UNDER § 533.5 PARAGRAPH (g)

AUTHORITY: 49 U.S.C. 32902; delegation of authority at 49 CFR 1.50.

§ 533.1 Scope.

This part establishes average fuel economy standards pursuant to section 502(b) of the Motor Vehicle Information and Cost Savings Act, as amended, for light trucks.

 $[42\ {\rm FR}\ 13807,\ {\rm Mar.}\ 14,\ 1977,\ {\rm as}\ {\rm amended}\ {\rm at}\ 43\ {\rm FR}\ 12013,\ {\rm Mar.}\ 23,\ 1978]$